Yan Michalevsky
E-mail: yanm2@stanford.edu
Website: http://www.stanford.edu/∼yanm2
Blog: http://blog.michalevsky.com/
SoundCloud: http://www.soundcloud.com/yan-michalevsky

1 Publications

- **Speaker Identification Using Diffusion Maps** - Y. Michalevsky, R. Talmon and I. Cohen. Eusipco 2011.
  In this work we utilized a dimensionality reduction technique for handling multi-dimensional speech features vectors.
  http://www.eurasip.org/Proceedings/Eusipco/Eusipco2011/papers/1569414913.pdf
- **Fast H.264 Picture-in-Picture (PIP) Transcoder with B-slices and Direct Mode Support** - Y. Michalevsky and T. Shoham. Melecon 2010, IEEE conference.
  In this paper we present a method enabling fast insertion of content into H.264 encoded video. Utilizing the original encoding parameters we were able to speed up encoding up to 8 times. http://sipl.technion.ac.il/siglib/IEEE/Certified_color-1.pdf
- **Venus: Verification for Untrusted Cloud Storage** - A. Shraer, C. Cachin, A. Cidon, I. Keidar, Y. Michalevsky and D. Shaket. CCSW 2010, ACM workshop on cloud computing security.
  In this paper we presented an architecture utilizing a trusted server and a client-to-client protocol, enabling verification of client data stored on an untrusted cloud, and preventing data tampering and the split-brain attack. http://webee.technion.ac.il/∼idish/ftp/venus-ccsw2010.pdf

2 Education

2012 - Now - Ph.D Student at Stanford University. Major: Electrical Engineering. Awarded a departmental fellowship. Research in the Applied Crypto Group supervised by Prof. Dan Boneh.

2012 - 2014 - M.Sc in Electrical Engineering at Stanford University. Major: Electrical Engineering.

2007 - 2010 - Technion Institute of Technology, Haifa, Israel. B.Sc EE. Graduated Cum Laude. Participated in the prestigious **Chais Excellence Program** which grants full scholarship and accepts about 15 students only each year from all applicants**.**

2003 - 2006 - Open University, Israel. Major: CS and Mathematics. Taken first year courses during my military service in IDF.

2001 - Programming and Networks training in IDF. Training in a top quality military computer related technologies and programming course.

1998 - 2001 - Israeli Arts and Science Academy high school, Jerusalem. Major studies: Physics. Conducted an experimental and theoretical study of Feedback and Control Systems that was chosen for a competition.

3 Employment and Work Experience

2012 - Self-employed consultant. Software development and consulting for Integrity-Project (development of a Linux driver for a wireless communication product) and AutoTalks Ltd (development

of a high-performance testing environment for a wireless protocol on an embedded platform).

2010 - 2012 - R&D Team Leader in IDF. Leading a development team of 8 developers. The team worked on a wide range of security, networking and operating systems related projects with various technologies and languages including C, C++, .NET, Win32 API, Python and more.

2009 - AcceloWeb Technologies (now part of Limelight Networks). Worked as a sub-contractor in the field of web-browsing acceleration. Implementation of Apache extensions in a Linux environment. Implemented a caching solution and ported the product to integrate with Apache using the JNI framework.

2009 - Vaorta - Consultancy in VoIP security. Responsible for analyzing the communication infrastructure of a big financial company and advising on security policy.

2008 - R&D intern at Infosys Technologies. Participated in InStep, Infosys's global internship program (125 interns selected from 12000 applications). Working in SETLabs, conducted research and development in the field of high-scale software analysis.

2006 - 2007 - R&D at Digicash Inc. A start-up company in the field of advertisement and micropayments. Development of client-server applications with ASP.NET, C++, C#, Windows Installer (MSI) and WiX, CryptoAPI & certificates, MSBuild. I was responsible for several projects such as the build environment of the whole product, automatic software update framework and digital signature and verification of the product's digital cash notes.

2006 - VoIP project leader at IDF. Responsible for design and architecture and leading two more developers working on a VoIP related project. This large scale project was an opportunity to gain deep knowledge of H.323, SIP and MGCP protocols. Granted an excellence award during the military service.

2001 - 2006 - R&D at IDF. Served in IDF's elite technology R&D unit. Development of software for projects where performance and robustness were critical. Gained vast experience in real-time software development for embedded platforms. Projects involved development for Hitachi CPU (over proprietary OS) and TI's C64 DSP. I had the opportunity to develop a compiler using tools like Lex & Yacc and developing graph and automatons algorithms. I gained a lot of experience with Telecommunication protocols such as SS7 and GSM and Internet protocols on different layers.

2004 - C++ Teacher at IDF. Teaching C++ programming in a top quality technological military training. This position helped a lot in developing presentation skills and gaining experience in developing educational curriculum.

4 Extra-curricular Activities

2012 - 2014 - Financial Officer of the Israeli Student Organization at Stanford University. Responsible for organization and funding of social events for the Israeli students community.
2009 - Volunteering for "Latet" agency helping holocaust survivors living in Haifa.
2008 - 2009 - Volunteering for "Select" project. Educational program focused on gifted children with poor socioeconomic background.
2007 - 2009 - Participated in the Technion symphonic orchestra as a violin player.
2007 - Performed with "Fermata" ensemble as a violin player.
1998 - 2001 - Community service during high-school, educational activities with children and with mentally handicapped people.

5 Personal Projects

2013 - SUPost.com Chrome extension - A Chrome browser extension that enables presentation of unread ads and filtering from the supost.com Stanford community bulletin and keyword based filtering.

2012 - LED T-shirt - Wearable electronics and clothing project. Made a T-Shirt with LEDs that respond to music played nearby according to the energy at each frequency band (using FFT). Code was running on a Lilypad Arduino.

2011 - Geekcon 2011 - three days long hackers conference in a garage atmosphere. During this short time we built a setup that enables watching stereoscopic 3-D images on an Android device. We developed an application that using the sound jack of the mobile device controlled an Arduino board with an attached pair of 3-D shutter glasses, thus synchronizing the shuttering with the constantly alternating images. http://blog.voicebrowsing.net/?p=120

2010 - Pango Mobile - an Android application for cellular parking in Israel. The application lets the user start or finish paying for parking by automatically sending SMS messages recognized by the parking service.

2009 - VoiceBrowsing IE Plug-in - Voice-Browsing plug-in for Internet Explorer. The plug-in enables navigation by voice commands utilizing Windows Speech API.

2007 - PyOCR - Handwritten characters recognition using artificial neural-network, implemented in Python. Developed for application to the Chais Excellence Program at the Technion.

2001 - 3-D graphics library - written mostly in Assembly and Pascal it implemented different kinds of shading algorithms including Goraud, Phong and Z-shading, texture mapping, color palette transitions, camera-transformations and various visual effects.

6 Awards and Honors

Awarded departmental fellowship at Stanford University towards Ph.D studies.
Dean's honors list 2008 - 2010 at the Technion.
Awarded the Chais Excellence Program scholarship at the Technion.
Dean's honors list 2005 at the Open University.
Granted excellence award for military service in IDF's elite technological R&D unit.

7 Languages

Hebrew, Russian and English (all fluent).